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<110> Liew, Choong-Chin

<120> Method for the Detection of Osteoarthritis Related Gene Transcripts in Blood

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<141> 2004-03-25

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<170> PatentIn version 3.2

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 gggtttcccg gggaacccaa ccctttaagg ggtngggggg aatttccccc caaaaaaagg 120
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 <213> Human

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 cccacatttc cttttttaat atatactgtg ctttaciaat attataatat gttttaaaat 180
 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc 240
 tttgaatata ttttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300
 caaaatttgt gatatttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360
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 accaagatgg tcaacaga 438

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 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc ccctttttcc 180
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caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180
aaggggggaa aattttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240
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ctgtacttga actctaaaac tgttggagaa actcagtgtc taccccaaca gattcatttc 180
aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc 240
attccttggg cctaggaacc ctcatcacc tcatccaac gtcaaccag atcttctctt 300
ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt 360
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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
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tg 242

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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120
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ataatggaag atagctntga ggatnaacnc tggttnaggg 100

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aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag	180
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 ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca 180
 aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240
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ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg	180
acgctctttt tgccgatcac caaacctagg cggggatgat caagctgggt atcgcgcgct	240
agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna	300
ttgccgggga gtcagcagtc gctttttccc ggnccaagcc tcgaactcac cancctgtct	360
ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga	420
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gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggaggggta	180
gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc	240
cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag	300
tgggcgccag caggggcggc cttcggggca aaccgaacct cagggtcanac ttccaagaaa	360

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agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg	420
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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttcntncccc	180
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 ggnaggaccc tgntgactcg gggggcgggga gcngggancc agg 103

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 actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt 180
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ctcagactgc aaantgtnat nctgncnnan nntgngact gtccngncng atttnnngcn	120
tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc	180
cantnnnctg gggncccacn nnnngngaact gagagtggat cttgtgtacc tgacnnacca	240

SEQLIST~1.TXT

gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga	300
ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg	360
ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat	420
aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa	480
ntctntcnct ataggcatga ttttnnnnag tgcgtcagcc ttganaanga ancnnacttt	540
tgntagatga nnnngtgctc ncccttgngg ctnacaaatt ccancaccnt tgggtggcngc	600
agccnttaag ancacttntt ttgggttgcg ctnttgatg aattacnaat agnntgtttt	660
gttncaaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn	720
actggaaatt ttg	733

<210> 53
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<223> n is a, c, g, or t

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<222> (80)..(80)

<223> n is a, c, g, or t

<400> 53

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caagtacgcn agcncctgaan ctaaagcaag caagaaaaag 100

<210> 54

<211> 515

<212> DNA

<213> Human

<400> 54

atatggcaag gataaccctt atacttctgc ataatgaatt aactaaaata acttgcaagg 60

agagccaagc taaacccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg 120

tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgatagc tgggtgtccaa 180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagattttac acccttaggg 300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

<210> 55

<211> 176

<212> DNA

<213> Human

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<223> n is a, c, g, or t

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<222> (32)..(32)

<223> n is a, c, g, or t

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<222> (40)..(40)

<223> n is a, c, g, or t

SEQLIST~1.TXT

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 <222> (60)..(60)
 <223> n is a, c, g, or t

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 <222> (62)..(62)
 <223> n is a, c, g, or t

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 <222> (76)..(76)
 <223> n is a, c, g, or t

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 <222> (107)..(107)
 <223> n is a, c, g, or t

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 <221> misc_feature
 <222> (155)..(155)
 <223> n is a, c, g, or t

<400> 55
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 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagagggg 120
 agcctgcccct cattagacca agacagcaag gtttncctg gtcactagat gaaatt 176

<210> 56
 <211> 317
 <212> DNA
 <213> Human

<220>
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 <222> (4)..(4)
 <223> n is a, c, g, or t

<400> 56
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 atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
 ggatttgggg tttagaggta caattgcctt tttatgggta gagaaaggct ctggggctgg 180
 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
 acattgttat tgccatt 317

<210> 57
 <211> 209
 <212> DNA
 <213> Human

SEQLIST~1.TXT

<400> 57
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ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc 120
aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat 180
taattgggag tgggggctga aacaattcg 209

<210> 58
<211> 262
<212> DNA
<213> Human

<400> 58
aattttgctg ttacatggtg gctcaactga gtcccatact ttgaaggccg ggagttaatc 60
acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120
caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg 180
agttgcttgg cccaaggaag gaggggttga tggctgatca cactggtccg cctgggtgac 240
agagcgagac tccatctcta at 262

<210> 59
<211> 430
<212> DNA
<213> Human

<400> 59
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aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc tttggccctt 120
cccgggggag ggggtatccg tttataaacc ccaagggtat tttcttagca aaataacttaa 180
aaccggccgg ggtttttata caaactggga acccactttt gaaaaatttt ggccttttga 240
tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccgggt 300
aagtattccc ccccgggggg cttttacaaa aagggcgggt ttaaagctt ttgggcccc 360
ctagggaatt gttttaacac ctaaaaaccc ctgcttcct taaagggcg ttctttaatt 420
tgggggcggc 430

<210> 60
<211> 350
<212> DNA
<213> Human

<400> 60
aaacctctt aactatatat cacaataacc tgcgcataag atttacgctc cgatcttttc 60
atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120
tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180

SEQLIST~1.TXT

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct	240
tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat	300
taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga	350

<210> 61
 <211> 515
 <212> DNA
 <213> Human

<400> 61	
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cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag	120
aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt	180
taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg	240
aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg	300
agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa	360
atgaagttga ataataaaaa tatattctac actagcacia attataaata aagcagtgat	420
ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata	480
gtcttctaaa atatatgact ttatgaattc tgact	515

<210> 62
 <211> 611
 <212> DNA
 <213> Human

<400> 62	
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aagacttttg ttttataaat aaggaggat atataaatta tatatatttc tgagctgagt	120
aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tcctttttgt	180
tgggcatttt tatgggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg	240
tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttattttaa	300
tttgttaaaa ttgatataat gatataaaa acttcttttg ccagtgttg tggcacacgc	360
ctttaatccc agcacttagg aggcagaggc aggggtggatt tctgaatttg agggcaggct	420
agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa	480
ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac	540
caaacagac taaaccaaac caaacagac cagaccagac cagaccagac cagaccagac	600
cagaccaaac t	611

<210> 63
 <211> 291

SEQLIST~1.TXT

<212> DNA

<213> Human

<400> 63

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ccgagagatt ggccactgct taaactcatg cagctcctac tgttcttcaa ttaatgcctt    60
taatgcgaat atacttcctc ttctttttgc atggctcttg ccagcctctg caatactgat    120
gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgcca    180
ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag    240
aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g                291
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<210> 64

<211> 309

<212> DNA

<213> Human

<400> 64

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gccagatgcc gtgtttcctc gatgaactct ttacatcatt ggctattcag tggagtgttt    60
cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca    120
tatatttcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg    180
aggcacattg ttctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat    240
cttaactgcc ctcttgatcc ttacgtgccg gagaagggtg aggcagaaat tttgtcaaat    300
ctgattaga                                     309
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<210> 65

<211> 278

<212> DNA

<213> Human

<400> 65

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tagaatggaa tggagtcgaa tgtgatggaa tggacgcgaa tggaatggaa tggactcgaa    60
tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa    120
agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa    180
tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa    240
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<210> 66

<211> 142

<212> DNA

<213> Human

<400> 66

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agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt    60
tttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa    120
atagctagta aactccccct gt                                142
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SEQLIST~1.TXT

<210> 67
<211> 286
<212> DNA
<213> Human

<400> 67
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aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
attatTTTcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
ccacattTTTt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68
<211> 179
<212> DNA
<213> Human

<400> 68
atctactTTTt tattcTTTtg ataaatgTTTt atgaaatata aaatactgaa aattagaaag 60
tagaagtcatt tattTTtatta taaaacatgt ggattagata tTTTcattta tgtgattaaa 120
ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179

<210> 69
<211> 390
<212> DNA
<213> Human

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<223> n is a, c, g, or t

<400> 69
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cttcagtcta agaacgtaaa tccatggaag aattTTaagc aggggtgtgc cttgaccaca 120
TTTTgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcatgt 180
agggagactg gTTTTTTaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240
gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggTtnnggtt 360
ctcaatttct gcatgagaaa aaaggtggac 390

<210> 70
<211> 481
<212> DNA
<213> Human

SEQLIST~1.TXT

<220>
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 <222> (26)..(26)
 <223> n is a, c, g, or t

<400> 70
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 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420
 atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480
 g 481

<210> 71
 <211> 125
 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 <222> (19)..(19)
 <223> n is a, c, g, or t

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 <222> (29)..(29)
 <223> n is a, c, g, or t

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 <222> (38)..(38)
 <223> n is a, c, g, or t

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 <222> (42)..(42)
 <223> n is a, c, g, or t

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 <222> (45)..(45)
 <223> n is a, c, g, or t

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SEQLIST~1.TXT

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (77)..(77)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (100)..(100)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t

<400> 71
cggtngcaat tgggggccnc atacgcgcng acgagtantg gncangctnc ttgactacac 60
ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc 120
cacag 125

<210> 72
<211> 473
<212> DNA
<213> Human

<220>
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<222> (151)..(151)
<223> n is a, c, g, or t

<400> 72
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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120

SEQLIST~1.TXT

aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga	180
cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa	240
tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa	300
ttgaaagatg agatgaaatg atgagatgaa atgaaatggt gaaatgatga agagatgtga	360
catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga	420
tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga	473

<210> 73
 <211> 500
 <212> DNA
 <213> Human

<220>
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 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (233)..(233)
 <223> n is a, c, g, or t

<400> 73 aatgagnatg aaaagnatga aatgatgaga tgaaatgaaa tgatgagatg aaatgaggtg	60
aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat	120
gaaatgagat gaaataaaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa	180
tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga	240
gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga	300
tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga	360
aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaaat	420
aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg	480
atgagatgaa atgatgaaat	500

<210> 74
 <211> 299
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (31)..(32)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

ggaaatcctg aagtggaaat gatgagctga nntgcaatga gttgaaatga gatgaancga 60

tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

<210> 75

<211> 155

<212> DNA

<213> Human

<400> 75

agtgaaatga aattgaaata aaatcgaaat gagatgagat gaaatgatga gatgatgaaa 60

taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76

<211> 367

<212> DNA

<213> Human

<220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (37)..(38)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (43)..(43)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (56)..(56)

<223> n is a, c, g, or t

SEQLIST~1.TXT

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 <222> (67)..(67)
 <223> n is a, c, g, or t

<220>
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 <222> (71)..(71)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<400> 76
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 ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatac 120
 cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180
 tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240
 ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300
 aaatatgagg ggtggcaagg ttttgccctgt tacattctca aatggaagca aattagatat 360
 gtcattg 367

<210> 77
 <211> 257
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<400> 77
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 atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta 120
 tcagtgtttg gggtttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg 180
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tattaccaaaa atatttggac cattantaaa gantagggcc aaccnaatt tttcttgaaa 180
tttccgtaa atagccgta aatgttttta cccatttcat attggatacc tttaaattata 240
ataatggatt ttattgttaa attgtgtgtg tgtgggtgtg atgccctgtc ttttctcctc 300
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ggaaaanaaa tcctttttaa anggaantcc aagggaagga ncctgnncaa nacttcccn 180
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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180
aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

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gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa	300
tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa	360
tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa	420
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ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaacag	180
taagggtattt ggcattggaat agagaacca gaaacagacc caatgcatgg gtacaggata	240
taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat	300
aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg	360

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aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag 180
agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240
aaccacagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300
taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact 346

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<400> 85
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attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagtgtg 180
atgtaacagt gtgggggtttc a 201

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tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180
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gcgaggaggt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480
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<400> 88
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acagccaaac cgggtccgcc aaggcctccg tcgttttata atatattccg tttacgtata 180
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gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaa at cgaagtttat 360
agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420

SEQLIST~1.TXT

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aaaaaaaaagg ttaaancccc ccctttttttt ttgggttggg gtgggaaaat tttgggaanc	240
cttaaccccc gggtttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa	300
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cggtggtaac tattaataca taagttaaat cggtatttaa aatttttaaaa tcaaaaaaaaa	120
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naaannnggn nctngggggg ggaaantttt ggcccccccc cgggggnttt ncctnaaaaa	240
aaancnttt naaanacngn nanaattttt ccnnnncggg gagngngga nntttttttt	300
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ccnttnnanc ntgggnnttt ttagnccttn aaaaaaangc naatnttaag gtaaaaattt	420
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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180

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ntaaatgnga tgaattaatg atgagatgaa atgntgaatg ccggggtggn tgagatgaat 720
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gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata 240
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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180
aatgacctaa tgaaatgaaa aaatgaaatg aaataatgaa atgaggtgaa attaaatgag 240
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ctcaggggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattcctttt	180
cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc	240

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 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180
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18

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24

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